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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An isolated polypeptide comprising:

- a) an amino acid sequence as set forth in any one of SEQ ID NOs. SEQ ID NOs: 1, 3, 5 or 7; or
- b) a functional fragment or variant of the polypeptides in a) above, wherein the fragment or variant provokes a humoral and/or cellular immunological response in an animal with similar characteristics to that produced by a polypeptide as outlined above.
- 2. (Currently Amended) An isolated polypeptide as claimed in elaims claim 1 wherein the functional fragment or variant incorporates a B cell or T cell epitope of the polypeptide.
- 3. (Currently Amended) An isolated nucleic acid molecule wherein the molecule:
- a) comprises a nucleotide sequence as set forth in any one of SEQ ID NOs. <u>SEQ ID NOs.</u>, 4, 6 or 8;
 - b) is a functional fragment or variant of the molecule(s) in a); or
- c) is able to hybridise under stringent conditions to the molecule(s) in a) or b); or
 - d) is a complement of the molecule(s) defined in a), b) or c); or
 - e) is an anti-sense sequence corresponding to any of the sequences in a) d).
- 4. (Currently Amended) An isolated nucleic acid molecule encoding a polypeptide as claimed in claim 1 either claim 1 or 2.
- 5. (Original) A vector or construct comprising the nucleic acid molecule as claimed in claim 4.
- 6. (Original) A host cell which has been transformed with a vector or construct as claimed in claim 5.
- 7. (Currently Amended) An isolated ligand which binds to a polypeptide as claimed in claim 1 either claim 1 or 2.
- 8. (Original) A probe capable of hybridizing under stringent conditions to a nucleic acid molecule as claimed in either claim 3 or 4.
- 9. (Currently Amended) A probe for a polypeptide as claimed in claim 1 either elaim 1 or 2.

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- 10. (Original) A probe for the ligand of claim 7 when the ligand is bound to the polypeptide.
- 11. (Currently Amended) A method for determining whether an animal is inclined to develop immune resistance to a nematode infection characterized by the steps of:
 - a) obtaining a blood or serum sample from the animal;
 - b) preparing an IgE enriched or IgG depleted preparation of the sample in a);
- c) contacting the sample at a) with a polypeptide comprising the amino acid sequence of any one of SEQ ID NOs. SEQ ID NOs: 1, 3, 5 or 7 or a functional fragment or variant thereof;
- d) contacting the preparation from c) with a probe for the immuno-complex formed by IgE and the polypeptide;
- e) detecting the probe to identify the immune status of the animal by the presence or absence of the probe.
- 12. (Currently Amended) A method for determining whether an animal is inclined to develop immune resistance to a nematode infection characterized by the steps of:
 - a) obtaining a blood or serum sample from the animal
 - b) preparing an IgE enriched or IgG depleted preparation of the sample in a);
- c) exposing the preparation from b) with a polypeptide comprising the amino acid sequence of any one of SEQ ID NOs. SEQ ID NOs: 1, 3, 5 or 7 or a functional fragment or variant thereof;
- d) washing the preparation from c) to remove any unbound IgE (i.e. IgE that is not bound to the polypeptide;
- e) detection of detecting the immuno-complex formed by the polypeptide and IgE at step c) with monoclonal antibodies to IgE[.]; and
 - f) detection of detecting IgE with appropriately labeled anti-antibodies.
- 13. (Currently Amended) A method of determining whether an animal is inclined to develop immune resistance to a nematode infection characterized by the steps of:
- a) exposing a portion of the animal's skin to a polypeptide comprising the amino acid sequence of SEQ ID NOs. SEQ ID NOs: 1, 3, 5 or 7 or a functional fragment or variant thereof; and

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- b) determining the immune status by the presence or absence of an immune or allergic reaction.
- 14. (Currently Amended) A method for whether an animal is inclined to develop immune resistance to nematode infection characterized by the steps of:
- a) determining the immune status of male and female animals via the use of Tco-aspin, Oc-aspin and/or Hc-aspin;
- b) selecting males and females disposed to develop immune resistance to nematodes; and
 - c) using selected animals to breed progeny resistant to said infection.
- 15. (Currently Amended) An isolated polypeptide as claimed in either claim 1 or 2 wherein the polypeptide is a functional fragment or variant of SEQ ID NO. SEQ ID NO: 5 having at least 90% homology to SEQ ID NO. SEQ ID NO:5.
- 16. (Currently Amended) An isolated nucleic acid molecule as claimed in claim 3 wherein the molecule is a functional fragment or variant of SEQ ID NO. SEQ ID NO: 6 having at least 94% homology to SEQ ID NO. SEQ ID NO:6.
- 17. (Currently Amended) An isolated polypeptide as claimed in either claim 1 or 2 wherein the polypeptide is a functional fragment or variant of SEQ ID NO. SEQ ID NO:1 having at least substantially 75% homology to SEQ ID NO. SEQ ID NO: 1.
- 18. (Currently Amended) An isolated nucleic acid molecule as claimed in claim 3 wherein the molecule is a functional fragment or variant of SEQ ID NO. SEQ ID NO: 2 having at least substantially 70% homology to SEQ ID NO. SEQ ID NO: 2.
- 19. (Currently Amended) An isolated polypeptide as claimed in either claim 1 or 2 wherein the polypeptide is a 47 functional fragment or variant of SEQ ID NO. SEQ ID NO. 3 having at least 80% homology to SEQ ID NO. SEQ ID NO. 3.
- 20. (Currently Amended) An isolated nucleic acid molecule as claimed in claim 3 wherein the molecule is a functional fragment or variant of SEQ ID NO. SEQ ID NO: 4 having at least substantially 70% homology to SEQ ID NO: 4.
- 21. (Currently Amended) An isolated polypeptide as claimed in either claim 1 or 2 wherein the polypeptide is a functional fragment or variant of SEQ ID NO. SEQ ID NO: 7 having at least 80% homology to SEQ ID NO. SEQ ID NO: 7.

22. (Cancelled)

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23. **(Currently Amended)** An isolated nucleic acid molecule as claimed in claim 3 wherein the molecule is a functional fragment or variant of SEQ ID NO. SEQ ID NO: 8 having at least 75% homology to SEQ ID NO: 8.